ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 599 (2000) 329–331

Journal of Organometallic Chemistry

Contents of Volume 599

Special issue on Organometallic Chemistry of Fullerenes. Guest Editor: V.I. Sokolov

Preface: Organometallic chemistry of fullerenes
V.I. Sokolov 1

New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers
M.A. Herranz, N. Martín, L. Sánchez, C. Seoane, D.M. Guldi 2

New mono- and polyazafulleroids $C_{60}(NR)_n$ ($n = 1, 2, 4, 6$) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$
M. Iglesias, B. Gómez-Lor, A. Santos 8

Endohedral analogs of ferrocene: ab initio theoretical predictions
A.L. Chistyakov, I.V. Stankevich 18

Metal-containing fullerenyl radicals: generation in solution and EPR study
B.L. Tumanskii, V.V. Bashilov, O.G. Kalina, V.I. Sokolov 28

Single-step synthesis of pentaaryl-monohydro[60]fullerenes through fivefold addition of organocopper reagent to C_{60}
M. Sawamura, H. Iikura, T. Ohama, U.E. Hackler, E. Nakamura. 32

A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand
V.V. Bashilov, T.V. Magdesieva, D.N. Kravchuk, P.V. Petrovskii, A.G. Ginzburg, K.P. Butin, V.I. Sokolov 37

Langmuir–Blodgett films of the endohedral metallofullerene $Dy@C_{82}$ at the air–water interface
H. Huang, S. Yang 42

Fluxional processes and structural characterization of μ_3-η^2,η^2,η^2-C_{60} triosmium cluster complexes, $Os_3(CO)_{9-n}(PMe_3)_n(\mu_3$-$\eta^2$,$\eta^2$,$\eta^2$-$C_{60})$ ($n = 1, 2, 3$)
H. Song, K. Lee, J.T. Park, H.Y. Chang, M.-G. Choi. 49

Computational modeling of the elemental catalysis in the Stone–Wales fullerene rearrangements
Z. Slanina, X. Zhao, F. Uhlík, M. Ozawa, E. Ōsawa 57

Synthesis, electrochemistry, Langmuir–Blodgett deposition and photophysics of metal-coordinated fullerene–porphyrin dyads
T. Da Ros, M. Prato, M. Carano, P. Ceroni, F. Paolucci, S. Roffia, L. Valli, D.M. Guldi 62

Alkali-metal fullerides MC_{60} $(THF)_x$ (M = Li, Na, K): a new solution-phase method for the preparation and characterization with ESR, UV–NIR and IR spectroscopy
X. Wei, Z. Suo, G. Yin, Z. Xu 69

Recent progress in the studies of endohedral metallofullerenes
S. Liu, S. Sun 74

Exohedral mono- and bimetallic hydride complexes of rhodium and iridium with C_{60} and C_{70}: syntheses and electrochemical properties
A.V. Usatov, S.M. Peregudova, L.I. Denisovich, E.V. Vorontsov, L.E. Vinogradova, Y.N. Novikov 87

Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives
H.-F. Hsu, J.R. Shapley 97

Regular Papers

The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds
R.J. Maldanis, J.C.W. Chien, M.D. Rausch 107

Synthesis, X-ray crystallographic, and reactivity studies of rhenium(V) alkyne complexes
J.-H. Jung, D.M. Hoffman, T.R. Lee 112

Preparation of double-layered dendritic carbosilanes
C. Kim, S. Son 123

Intramolecular Friedel–Crafts acylation of acyclic (η^4-diene)$Fe(CO)_3$ complexes
M.-C.P. Yeh, S.-C. Chang, C.-J. Chang 128

A novel heterobimetallic complex composed of the imide-bridged [3]ferrocenophane and the tridentate palladium(II) complex
T. Moriuchi, S. Bandoh, Y. Miyaji, T. Hirao 135

Oligomerization and simultaneous cyclization of ethylene to methylenecyclopentane catalyzed by zirconocene complexes
M. Wang, Y. Shen, M. Qian, R. Li, R. He 143

Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls
J.A. Gutiérrez, M.A. Paz-Sandoval, J. Robles 147

Ruthenium(II) chemistry of phosphorus-based ligands, $Ph_2PN(R)PPh_2$ (R = Me or Ph) and $Ph_2PN(Ph)P(E)$ Ph_2 (E = S or Se). Solution thermochemical study of ligand substitution reactions in the Cp′RuCl(COD) (Cp′ = Cp, Cp*; COD = cyclooctadiene) system
M.S. Balakrishna, R. Panda, D.C. Smith Jr., A. Klaman, S.P. Nolan 159

Solvent effects on the rate of oxidative addition of methyl iodide to di(4-thiocresol)(2,2′-bipyridyl) platinum(II)
J.K. Jawad, F.N.K. Al-Obaidy, J.A. Hammud, F. Al-Azab 166

C–F bond activation in polyfluorobenzothiolate compounds of Os(III). X-ray structures of $[\overline{Os(SC_6F_4(F\text{-}2))}(SC_6F_5)_2(PMe_2Ph)_2]$, $[Os(SC_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)]$ and $[Os(C_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)_2]$
M. Arroyo, S. Bernès, J.L. Brianso, E. Mayoral, R.L. Richards, J. Rius, H. Torrens 170

Mechanism of the hydrogenation of 2,5-norbornadiene catalyzed by $[Rh(NBD)(PPh_3)_2]BF_4$ in dichloromethane: a kinetic and spectroscopic investigation
M.A. Esteruelas, J. Herrero, M. Martín, L.A. Oro, V.M. Real 178

FTIR study of thermally induced transformations of trimethylsilylmethyl acetate in the temperature range 623–813 K
I.K. Ball, P.G. Harrison, A. Torr 185

Facial and meridional $[N–C–N]^-$ intramolecular coordination systems: structure of *fac*-$PtBrMe_2\{2,6\text{-}(pzCH_2)_2C_6H_3\}\cdot 1/2C_6H_6$ {$[2,6\text{-}(pzCH_2)_2C_6H_3]^-$ = 2,6-(bis{(pyrazol-1-yl)methyl}phenyl)} and *mer*-$PtBr\{2,6\text{-}(3,5\text{-}Me_2pzCH_2)_2C_6H_3\}$, and an alternative synthetic route to the platinum(II) $[N–C–N]^-$ kernel
A.J. Canty, J. Patel, B.W. Skelton, A.H. White 195

Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide
M.R. Mason, A.M. Perkins 200

Preparation of ethynylsilane dendrimers
C. Kim, I. Jung 208

Photoinduced electron-transfer reaction between C_{60} and cyclic silicon compounds
Y. Sasaki, T. Konishi, M. Fujitsuka, O. Ito, Y. Maeda, T. Wakahara, T. Akasaka, M. Kako, Y. Nakadaira 216

Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-}Cl)(\mu\text{-}SPr^i)_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system
Y. Ishii, K.-i. Ogio, M. Nishio, M. Retbøll, S. Kuwata, H. Matsuzaka, M. Hidai 221

Synthesis and physical properties of α,ω-bis[$Co_2(CO)_6\{\mu\text{-}\eta^2\text{:}\eta^2\text{-}C(R)\equiv C\}$]oligothiophenes
T.S. Jung, J.H. Kim, E.K. Jang, D.H. Kim, Y.-B. Shim, B. Park, S.C. Shin 232

Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen
O.E. Woisetschläger, A. Geisbauer, K. Polborn, W. Beck 238

Koordinationschemie perhalogenierter Cyclopentadiene und Alkine, XXVI. [1]. Umsetzung von lithiierten Halogencymantrenen mit N-Elektrophilen. Molekülstrukturen von $(OC)_3Mn[\eta^5\text{-}C_5Cl_4–NH–N{=}C_5Cl_4]$ und $(OC)_3Mn[\eta^5\text{-}C_5H_3Cl(NH_2)\text{-}1,2]$
K. Sünkel, U. Birk, S. Soheili, C. Stramm, R. Teuber 247

Reactions of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-Cl})Fe_2(CO)_6$ with $[(\mu\text{-E})(\mu\text{-R}^1E^1)Fe_2(CO)_6]^-$ (E, E^1 = S or Se). Synthesis and characterization of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-R}^1S)[Fe_2(CO)_6]_2(\mu_4\text{-E})$ and $[(\mu\text{-}\eta^2\text{-PhCH=CH})Fe_2(CO)_6]_2(\mu_4\text{-Se})$
Z.-X. Wang, H. Zhao, Z.-Y. Zhou, X.-G. Zhou 256

Synthesis, characterization and catalytic properties of metallacyclic zirconocene complexes
E.H. Licht, H.G. Alt, M.M. Karim. 261

ω-Phenylalkyl-substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization
E.H. Licht, H.G. Alt, M.M. Karim. 275

Addition of *N*-aryl imines to alkyne(pentacarbonyl)chromium and tungsten — a novel route to alkenyl(amino)carbene complexes
M.M. Abd-Elzaher, T. Froneck, G. Roth, V. Gvozdev, H. Fischer 288

Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation
A. Caiazzo, R. Settambolo, L. Pontorno, R. Lazzaroni 298

Selective P–N bond cleavage in chiral triquinphosphoranes promoted by zirconocene complexes
C. Marchi, A. Igau, J. Pierre Majoral, G. Buono. 304

Synthesis and X-ray structures of manganese(I) and rhenium(I) formato complexes, *fac*-$(CO)_3$(dppp)M–OC(H)O
M.T. Williams, C. McEachin, T.M. Becker, D.M. Ho, S.K. Mandal 308

The reaction of $[Ru_3(CO)_{12}]$ with bis(diphenylphosphino)amine. The crystal and molecular structure of $[Ru_3(CO)_{10}(dppa)]$ and $[Ru_3(CO)_8(dppa)_2]$
G. Sánchez-Cabrera, E.V. García-Báez, M.J. Rosales-Hoz 313

Book Review. 317
Conference Calendar 319
Author Index of Volume 599 321
Subject Index of Volume 599 323
Contents of Volume 599 327